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ABSTRACT

~~A system and method for video data management, transmission, and control employing distributed video segments microcasting (DVSM) is provided, said the system and method comprising: (i) video program sectoring facilitating video data storage; (ii) transforming video content to DVSM data format; (iii) ubiquitous transporting and high speed delivery of DVSM data; (iv) multi-level filtering and decision making for data assignment and coordination of critical user and DVSM video data; and (v) data insertion for inserting assigned user data into DVSM video data segments. The system and method for video data management, transmission, and control of the present invention uses a plurality of segmenting, formatting, distributing, microcasting, multicasting, high speed/ low speed transmitting, asynchronous/isochronous transmitting, and resolution switching techniques to manage, transmit, and control video data. Any video data or program (analog or digital) can be converted to DVSM format for management, transmission, and control in accordance with the system and method of the present invention. The video data management, transmission, and control system and method of the present invention allows viewers to, instantly and without delay, view prerecorded, distributed and stored video programs, as well as live broadcasts. Viewing will appear as if it had been broadcasted in real time, as opposed to the delays associated with storing and downloading video programs. The system and method of the present invention allows users to, *inter alia*, control "who views which video" within the user's customer premise equipment (CPE) or in home local area network (LAN). Users can stop, pause, replay, rewind or fast forward any segment of~~

~~the video program, including a live broadcast (with the exception of the fast forward function), with a remote control. Users can also choose to view stored sub-titles for foreign video programs in the language of their choice.~~

A system comprising: (i) video programming sectoring facilitating data storage; (ii) transforming video content to DVSM data format; (iii) ubiquitous delivery of data; (iv) multi-level filtering and decision making for coordinating user and video data; and (v) data insertion of assigned video segments based on user data using a plurality of microcasting and resolution switching techniques. Any video data can be converted to DVSM format allowing instant viewing of prerecorded or live-broadcasts and, *inter alia*, control viewing within the user's customer premise equipment. Viewing will appear as if it had been broadcast in real-time, as opposed to the delays associated with storing and downloading video programs. Users can stop, pause, replay, rewind or fast-forward any segment of the video program, (with the exception of live broadcast fast-forward function), with a remote control. Users can also choose to view stored sub-titles for foreign video programs in the language of their choice.